

ABSTRACT

There is provide a mobile radio apparatus capable of suppressing a mismatching loss, and increasing a transmission/reception sensitivity by means of instantly and adaptively matching the impedance between the antenna and the transmission/reception circuit whatever situation a mobile radio apparatus, such as a mobile phone or the like, may be. In a mobile radio apparatus (1), when starting control of the matching circuit (102), a control section (105) evaluates an initial chromosome stored in a storage section (106), and if there is an initial chromosome for providing an impedance matching, controls the matching circuit (102) so as to have a load value corresponding to this initial chromosome. If there is no initial chromosome for providing the impedance matching, the control section (105) evolves the initial chromosome with a genetic algorithm, derives a chromosome for providing the impedance matching, and controls the matching circuit (102) so as to have a load value corresponding to the derived chromosome.